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NOTICE OF ALLOWANCE AND FEE(S) DUE

4372

7500

06/22/2009

ARENT FOX LLP 1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON, DC 20036 EXAMINER

JONAITIS, JUSTIN M

ART UNIT PAPER NUMBER

3752

DATE MAILED: 06/22/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,084	07/09/2007	Akira Akabane	107348-00599	4159

TITLE OF INVENTION: ELECTROMAGNETIC FUEL INJECTION VALVE AND PROCESS FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advance on the nerwise in Block 1, by (a	a) specifying a new cor	respondence address	; and/o	r (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fi pa	ee(s) Transmittal. Th apers. Each addition	iis certi: al papei	ficate cannot be used fo	domestic mailings of the rany other accompanying at or formal drawing, must
SUITE 400	ΓΙCUT AVENUE, 1		I	Ce hereby certify that these Postal Service	rtificatoris Fee(e of Mailing or Transn (s) Transmittal is being	nission deposited with the United c class mail in an envelope above, or being facsimile te indicated below.
WASHINGTON	N, DC 20036						(Depositor's name)
			-				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR	ATTC	DRNEY DOCKET NO.	CONFIRMATION NO.
10/590,084	07/09/2007		Akira Akabane			107348-00599	4159
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU		E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional EXAM	NO	\$1510 ART UNIT	\$300 CLASS-SUBCLASS	\$0		\$1810	09/22/2009
JONAITIS.		3752	239-585100	_			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OF ACCUSATION OF THE ACC			listed, no name will be printed.				
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing a	an assignment. FY and STATE OR	COUN'	TRY)	up entity 🗖 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 				
**	s SMALL ENTITY state	is. See 37 CFR 1.27.		-		TITY status. See 37 CF	
interest as shown by the	records of the United Sta	uired) will not be accepte ites Patent and Trademark	of from anyone other that Office.	п ине аррисані; а гед	istered	auorney or agent; or the	e assignee or other party in
Authorized Signature			Date				
Typed or printed name			Registration No.				
an application Confiden	tiality is governed by 35 d application form to the ions for reducing this but riginia 22313-1450. DO	LLS C 122 and 37 CFR	1.14 This collection is	estimated to take 12.	minute	s to complete including	by the USPTO to process) gathering, preparing, and be you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/590,084 07/09/2007		Akira Akabane	107348-00599 4159			
4372 7590 06/22/2009			EXAM	EXAMINER		
ARENT FOX LLP			JONAITIS, JUSTIN M			
	CUT AVENUE, N.W.	ART UNIT PAPER NUMBER				
SUITE 400 WASHINGTON, I	OC 20036		3752 DATE MAILED: 06/22/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 75 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 75 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/590,084	AKABANE, AKIRA				
Notice of Allowability	Examiner	Art Unit				
	JUSTIN JONAITIS	3752				
	JUSTIN JONAITIS	3732				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub-	is application. If not included cation will be mailed in due course. THIS				
1. This communication is responsive to <u>02/06/2009</u> .						
2. ☑ The allowed claim(s) is/are <u>1-5</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application N	No				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) 🔲 including changes required by the Notice of Draftspers	(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	the Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Sum	mal Patent Application mary (PTO-413),				
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Ma 7. ☐ Examiner's An	Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment				
Paper No./Mail Date	<u>_</u> (((()))					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. 🛚 Examiner's Statement of Reasons for Allowance				
	9. Other					
/JUSTIN JONAITIS/ Examiner, Art Unit 3752	/Len Tran/ Supervisory Paten	it Examiner, Art Unit 3752				
	I					

DETAILED ACTION

Allowable Subject Matter

Claims 1-5 are allowed.

1. The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The invention disclosed describes a fuel injector with components arranged in a very specific manner which is not found in the prior art. For instance the combination of, the outer diameters of the magnetic cylinder and the outer diameter of the valve seat member being equal to each other, the annular recess having a flat portion in communication with the stationary attraction face, the inner peripheral surface of the non-magnetic cylinder and in communication with the annular recess, or the annular chamber being defined by a the flat portion of the annular recess and being connected to the center bore and guide bore by an inclined surface and the area between the annular recess, outer periphery of the movable core, and an inner peripheral surface of the non-magnetic cylinder.

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Art Unit: 3752

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUSTIN JONAITIS whose telephone number is (571)270-5150. The examiner can normally be reached on Monday - Thurs 6:30am - 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JUSTIN JONAITIS/ Examiner, Art Unit 3752 /Len Tran/ Supervisory Patent Examiner, Art Unit 3752